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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/088,679	06/24/2002	John W Goodby	124-932	4828
;	7590 11/17/2003		EXAMINER	
Nixon & Vanderhye 8th Floor 1100 North Glebe Road Arlington, VA 22201-4714			WU, SHEAN CHIU	
			ART UNIT	PAPER NUMBER
			1756	
			DATE MAILED: 11/17/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		/U				
	Application No.	Applicant(s)				
	10/088,679	GOODBY ET AL.				
Office Action Summary	Examiner	Art Unit				
	Shean C Wu	1756				
The MAILING DATE of this c mmunication appears on the cover sheet with the correspondence address Period f r Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on	·					
2a) This action is FINAL . 2b) ⊠ This	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-29</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3,6-8,12 and 26-29</u> is/are rejected.						
7)⊠ Claim(s) <u>4,5,9-11 and 13-25</u> is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §§ 119 and 120						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 						
37 CFR 1.78. a) ☐ The translation of the foreign language provisional application has been received. 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.						
Attachment(s)		(DTO 440) D				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) D Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)				

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DETAILED ACTION

Claim Objections

1. Claims 4-5, 11 and 13-25 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependent claim. Claim 10 is objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should refer to other claims in the alternative only. Accordingly, the claims 4-5, 10-11 and 13-25 have not been further treated on the merits.

Claim Rejections - 35 USC § 112

2. Claim 6 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In Claim 6, the notation R¹ is not defined in item (iii).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-3, 6-8, 12 and 27-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Meyer et al. (US 4,013,642).

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The reference compounds represented by formulae (140) in Table III anticipate the claimed compounds.

5. Claims 1-3, 6-8, 12 and 26-28 are rejected under 35 U.S.C. 102(b) as being anticipated by JP-7-179856.

The reference compounds represented by formulae in Tables 2-13 anticipate the claimed compounds; particularly compound 80 in Table 8. Although some of the reference compounds are excluded from the present Claim 1, however, the reference compounds in Tables 2-13 read on the claimed compounds because the definition of R¹⁻⁴ groups are so broad such as optionally substituted hydrocarbyl, optionally substituted heterocyclyl, which encompass the reference groups.

The method of preparing the present formula (I) in item (ii) is also taught in the reference. See schemes A and B on page 8. Therefore, the reference anticipates the claimed invention.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claim 29 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP-7-179856.

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The reference compounds differ from the present compounds in that the present compounds are not exemplified in the reference. However, the compounds between the present invention and the reference are homologue (see the present compound No. 4 (2-(4-heptylphenyl)-5-4-heptylphenyl) benzofuran) and the reference compound 80 on page 16 (4-hexylphenyl-5-4-hexylphenyl) benzofuran). Other present compounds are suggested and taught by the reference except compounds 1, 38-39, 58-59 and 77-78. Therefore, it would have been obvious to those skilled in the art to modify the starting material by changing the length of the alkyl chain, linking groups and terminal groups attached to benzofuran core structure to arrive at the claimed compounds.

Allowable Subject Matter

- 8. Claim 9 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shean C Wu whose telephone number is 703-308-3956. The examiner can normally be reached on Monday-Friday 9:30 -6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on 703-308-2464. The fax phone number for the organization where this application or proceeding is assigned is 703-305-7718.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Shean C Wu

Primary Examiner Art Unit 1756

scw